BRUHATH BANGALORE MAHANAGARA PALIKE

Executive Engineer Yelahanka Division

Name of work :- Maintainance of Existing Public Toilets in Ward No 02 of Yelahanka Sub Division.

Job Code:-

Est Cost:-12.50Lakhs

Sl.No.	Description of work	Measurement				Qty	Unit	Rate	Amount
			L	B	D				
1	**Excavation in Soil with Dozer** KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 (Page 143, Item No 19.14 KPWD SR 2016-17)								
	Rate analysis								
	Basic rate	41.00							
	lift charge	69.80							
	Area wt 8%	3.28							
	Total Rs	114.08							
	Toilet		1	7.50	4.00	0.20	6.00		
							6.00	**Cum**	**114.08**	**684.48**
2	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 (Page No 147., I.No.19.60 of KPWD S.R 2018-19)								
	Rate analysis								
	Basic rate	325.00							
	Area wt 8%	26.00							
	Total Rs	351.00							
	Toilet		1	7.50	4.00	0.20	6.00		
							6.00	**Cum**	**351.00**	**2106.00**
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1.4.2 (Page No-13, Item No-4.2 of KPWD S.R 2018-19)								
	Rate analysis								
	Basic rate	5194.00							
	Area wt 8%	415.52							
	Total Rs	5609.52							
	Toilet Flooring		1	6.00	3.00	0.15	2.70		
							2.70	**Cum**	**5609.52**	**15145.70**
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per directions of the Engineer-in-charge. Specification No. KBS 4.4.3 -do- TMT bard Fe550 (Page No-18, Item No-4.46.3 of KPWD S.R 2018-19)								
	Rate analysis								
	Basic rate	71518.00							
	Area wt 8%	5721.44							
	Total Rs	77239.44							
	Toilet	80 kg/cum				4.25	0.34		
							0.34	**MT**	**77239.44**	**26244.42**
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.(Page No-25, Item No-5.9 of KPWD S.R 2018-19).								
	Rate analysis								
	Basic rate	5483.00							
	Area wt 8%	438.64							

Sl.No.	Description of work		Measurement	L	B	D	Qty	Unit	Rate	Amount
	Total Rs	5921.64								
	Toilet Basement		2	6.30	0.60	0.45	3.40			
			2	2.65	0.60	0.45	1.43			
			2	6.30	0.45	0.30	1.70			
			2	2.65	0.45	0.30	0.72			
							7.25	Cum	5921.64	42928.93
6	KSRB 2-1 : Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 (Page No 6 , I No.2.1 of KPWD S.R 2018-19).									
	Rate analysis									
	Basic rate	249.00								
	Area wt 8%	19.92								
	Total Rs	268.92								
	Toilet		2	6.30	0.60	0.90	6.80			
			2	2.65	0.60	0.90	2.86			
							9.67	Cum	268.92	2599.38
7	KSRB 2.8 Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications, specification. No. KBS(Page No 7 , I.No.2.15 of KPWD S.R 2018-19).									
	Rate analysis									
	Basic rate	2429.00								
	Area wt 8%	194.32								
	Total Rs	2623.32								
	Boulders		2	6.30	0.60	0.20	1.51			
			2	2.65	0.60	0.20	0.64			
							2.15	Cum	2623.32	5634.89
8	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mix concrete(RMC) for RCC works laid in 15 cms thick layers and well conpacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exlusive of cost of steel and fabrication charges) Ready mix concrete M-20 for raft foundation, coulmn and footing, main ans secondary beams. (Page No-18, Item No-4.48 of KPWD S.R 2018-19).									
	Rate analysis									
	Basic rate	5444.00								
	Area wt 8%	435.52								
	Total Rs	5879.52								
	Plinth Beam		2	6.30	0.20	0.15	0.38			
			2	2.65	0.20	0.15	0.16			
	Lintel		2	6.30	0.15	0.15	0.28			
			2	2.65	0.15	0.15	0.12			
	Slab		1	3.50	6.30	0.15	3.31			
							4.25	Cum	5879.52	24971.79
9	KSRB 4-6.7 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(Page No 16., I.No.4.34 of KPWD S.R 2018-19).									
	Rate analysis									
	Basic rate	292.00								
	Area wt 8%	23.36								
	Total Rs	315.36								
	Plinth Beam		2	6.30		0.20	2.52			
			2	2.65		0.20	1.06			
	Lintel		2	6.30		0.30	3.78			
			2	2.65		0.30	1.59			

Sl.No	Description of work	Measurement				Qty	Unit	Rate	Amount
			L	B	D	8.95	Sqm	315.36	2822.47
10	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00N/mm2 confirming to IS 2185(part 1):2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing , hire charges of machineries etc., complete as per specifications.KBS No 5.4 -do-400x150x200mm (Page No 27 , I.No.5.26.2 of KPWD S.R 2018-19).								
	Rate analysis								
	Basic rate	924.00							
	Area wt 8%	73.92							
	Total Rs	997.92							
	Wall	2	6.30		3.00	37.80			
		2	3.00		3.00	18.00			
	Partions	4	1.00		2.10	8.40			
		1	3.00		2.10	6.30			
		4	0.75		1.20	3.60			
	Steps	1	6.00	0.90		5.40			
		1	6.00	0.60		3.60			
		1	6.00	0.30		1.80			
	Deductions								
	D2	-6	0.70		2.10	-8.82			
	D1	-2	0.90		2.10	-3.78			
	V	-8	0.45		0.45	-1.62			
						70.68	Sqm	997.92	70532.99
11	KSRB 15.3.1 Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Page No 115, I.No15.9 of KPWD S.R 2018-19)								
	Rate analysis								
	Basic rate	211.00							
	Area wt 8%	16.88							
	Total Rs	227.88							
	Wall	2	6.30		0.90	11.34			
		2	3.00		0.90	5.40			
	V	-8	0.45		0.45	-1.62			
						15.12	Sqm	227.88	3445.55
12	KSRB15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Page No 116, I.No15.15 of KPWD S.R 2018-19)								
	Rate analysis								
	Basic rate	276.00							
	Area wt 8%	22.08							
	Total Rs	298.08							
	Wall	2	6.30		3.00	37.80			
		2	3.00		3.00	18.00			
	Deductions								
	D1	-2	0.90		2.10	-3.78			
	V	-8	0.45		0.45	-1.62			
						50.40	Sqm	298.08	15023.23
13	KSRB15-5.1 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications(Page No 117, I.No.15.30 of KPWD S.R 2018-19)								
	Rate analysis								
	Basic rate	205.00							
	Area wt 8%	16.40							
	Total Rs	221.40							
	Wall	2	6.30		2.10	26.46			

Sl.No.	Description of work	Measurement				Qty	Unit	Rate	Amount
			L	B	D				
	Partions	2	3.00		2.10	12.60			
		8	1.00		2.10	16.80			
		2	3.00		2.10	12.60			
		8	0.75		1.20	7.20			
	Deductions								
	D2	-6	0.70		2.10	-8.82			
	D1	-2	0.90		2.10	-3.78			
	Take 50%					6.30			
14	Providing and fixing colour glazed tiles of size 300mmx450mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment, etc., complete as per specification.(Page No 112, I.No.14.65 of KPWD S.R 2018-19).					69.36	Sqm	221.40	15354.38
	Rate analysis								
	Basic rate	1034.00							
	Area wt 8%	82.72							
	Total Rs	1116.72							
	Wall	2	6.30		2.05	25.83			
		2	3.00		2.05	12.30			
	Partions	2	1.00		2.10	16.80			
		8	3.00		2.10	12.60			
		2	0.75		1.20	7.20			
	Deductions								
	D2	-6	0.70		2.10	-8.82			
	D1	-2	0.90		2.10	-3.78			
	Take 50%					6.30			
						68.43	Sqm	1116.72	76417.15
15	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Page No 116, I.No15.21 of KPWD S.R 2018-19)								
	Rate analysis								
	Basic rate	235.00							
	Area wt 8%	18.80							
	Total Rs	253.80							
	Ceiling	1	6.30		3.60	22.68			
						22.68	Sqm	253.80	5756.18
16	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.(Page No 119 I.No15.51.2 of KPWD S.R 2018-19).								
	Rate analysis								
	Basic rate	90.00							
	Area wt 8%	7.20							
	Total Rs	97.20							
	Same as internal plastering					15.12			
	Same as internal ceiling					22.68			
						37.80	Sqm	97.20	3674.16
17	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. Area to be considered -(a) 100% for fresh surface(Page No128, I.No.15.106 of KPWD S.R 2018-19).								
	Rate analysis								
	Basic rate	78.00							
	Area wt 8%	6.24							
	Total Rs	84.24							

Amount
15356.30
76417.15
5756.18
74.16

Sl.No	Description of work		Measurement				Qty	Unit	Rate	Amount
				L	B	D				
	Same as internal plastering and						73.08			
							73.08	Sqm	84.24	6156.26
18	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm (P No.109, I.No.14.47.1 of PWD SR 2018-19)									
	Rate analysis									
	Basic rate	2739.00								
	Area wt 8%	219.12								
	Total Rs	2958.12								
	Flooring		1	6.00	3.00		18.00			
	Steps		2	6.00		0.15	1.80			
			1	6.00	0.30		1.80			
							21.60	Sqm	2958.12	63895.39
19	KSRB 7.9 : Providing and fixing M.S.grill work for windows and Kgs ventilators using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications Specification No. KBS 7.12 (Page No 34, I.No 7.9 of KPWD S.R 2018-19)									
	Rate analysis									
	Basic rate	95.00								
	Area wt 8%	7.60								
	Total Rs	102.60								
			8.00	0.45		0.45	1.62			
	40 Kg Per Sqm						64.80			
							64.80	Kgs	102.60	6648.48
20	Door Frame – Wet areas – W.C. / bath: Providing & fixing factory made Aluminium Zinc coated steel door frame of profile size 105 x 60 mm single rebate manufactured from Aluminium Zinc metallic coated steel sheet 1.20 mm thick, conforming to IS: 15961. The door frame consists of hinge jamb, lock jamb, head & bottom tie bars & supply in knockdown condition & to be assembled on site by mechanical means with special mitre joint to be bottom tie bar made out of galvanized plain steel sheet 1.60 mm thick pressed angle 20 x 20 mm to be screwed to the door frame. The 3 nos. of S.S. butt hinges 100 x 58 x 1.9 mm to be projection welded to the door frame. The necessary stiffeners & mortar guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre-treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/ hold fasts. Alternatively dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. size 750 x 2130 mm (Page No 314, I.No.38.49.3 of KPWD S.R 2018-19).									
	Rate analysis									
	Basic rate	477.00								
	Area wt 8%	38.16								
	Total Rs	515.16								
			6.00	5.60			33.60			
							33.60	Rmt	515.16	17309.38
21	Door shutters - Wet areas – W.C. / bath : Providing & fixing factory made Galvanized steel door Shutters 32 mm thick manufactured from pre- painted Aluminium-zinc metallic coated steel sheet 0.60 mm thick conforming to the IS: 15961. The door shutters consist of two outer skins of steel sheets, lock seam jointed at vertical stile edges, horizontal top & bottom sides to form a double skin fully flush shell. Rigid polyurethane Foam (PUF) of density 40 Kg/M3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of Galvanized plain steel sheet of minimum thickness 1.60 mm to be provided for all hardware fixtures. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. size – 650 x 2035 x 32 mm thick.(Page No 314, I.No.38.50.3 of KPWD S.R 2018-19).									
	Rate analysis									
	Basic rate	2500.00								
	Area wt 8%	200.00								
	Total Rs	2700.00								

Sl.No.	Description of work	Measurement				Qty	Unit	Rate	Amount
			L	B	D				
		7.00	0.70		2.10	10.29			
						10.29	Sqm	2700.00	27783.00
22	KSRB 11-1 : Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (Page No80, I.No.12.10 of KPWD S.R 2018-19).								
	Rate analysis								
	Basic rate	7091.00							
	Area wt 8%	567.28							
	Total Rs	7658.28							
			6.00			6.00			
						6.00	Pan	7658.28	45949.68
23	KSRB 11-7.4 : Providing and fixing white vitreous china clay, flat Unit back, lipped front urinal basin of 430x260x350mm in the range of three with 7.5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11(Page No 80, I.No.12.9 of KPWD S.R 2018-19).								
	Rate analysis								
	Basic rate	5814.00							
	Area wt 8%	465.12							
	Total Rs	6279.12							
			7.00			7.00			
						7.00	Unit	6279.12	43953.84
24	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications (For 1000 litre capacity) Specification No.KBS 13.22 (pg No-96 It no-13.78 of KPWD S.R 2018-19).								
	Rate analysis								
	Basic rate	6828.00							
	Area wt 8%	546.24							
	Total Rs	7374.24							
			2.00			2.00			
						2.00	Nos	7374.24	14748.48
25	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes. (P.No. 98 I.No. 13.85.3 of KPWD S.R 2018-19)								
	Rate analysis								
	Basic rate	196.00							
	Area wt 8%	15.68							
	Total Rs	211.68							
			1.00	80.00		80.00			
						80.00	Nos	211.68	16934.40
	For One Toilets								556722.53
26	For Two Toilets (2)								1113446.00
	Total Construction cost								1113446.00
	Add 12% GST Charges Rs.								133614.00
	Lumpsum for rounding off Rs.								2940.00
	Grand Total Rs.								1250000.00

Sl.No	Description of work
4	Certified that Adeqate & neces
5	Certified that the above area c

Assistant Engineer
Ward no 02
BBMP, Bangalore

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Head o
CER NO

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CERTIFICATE

1 *Certified that The work spot has been inspected by me and the work is necessary & site condition*
2 *Certified that the work is not split*
3 *Certified that the estimate is based on PW,P&IWTD South Zone Bangalore SR of 2018-19*

Sl.No	Description of work	Measurement				Qty	Unit	Rate	Amount
			L	B	D				
4	*Certified that Adeqate & necessary provisions have made in the estimate.*								
5	*Certified that the above area comes under BBMP limit*								

Assistant Engineer
Ward no 02
BBMP, Bangalore.

Assistant Executive Engineer
Yalahanka Sub-division
BBMP, Bangalore.

Executive Engineer
Yelahanka division
BBMP, Bangalore.

Administrative Approval

Accorded For RS 12.50 lacks
Head of A/C P3294
CER NO : 109/18-19 Dt: 08-01-2019

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Twelve Lacky Fifty Thousand only.
P-3294
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Sanctioned
EE/YNK/TS/21/18-19
Dated 07-02-19
12.50 Lacs
Executive Engineer

Amount
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